

# SWETA AGRAWAL

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## EDUCATION

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<b>Ph.D. in Computer Science</b> University of Maryland, College Park (CGPA: <b>3.94</b> /4.0) <i>Advisor:</i> Marine Carpuat	August 2018 - July 2023
<b>Masters in Computer Science</b> University of Maryland, College Park (CGPA: <b>3.94</b> /4.0) <i>Advisor:</i> Marine Carpuat	August 2018 - May 2020
<b>Bachelor of Technology in Computer Science and Engineering</b> Indian Institute of Technology Guwahati (CGPA: <b>9.30</b> /10.0) <i>Advisor:</i> Amit Awekar	July 2013 - May 2017

## EMPLOYMENT

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<b>Postdoctoral Researcher</b> , Instituto de Telecomunicações	January 2024 - Present
<b>AI Research Scientist Intern</b> , Unbabel	September 2023 - December 2023
<b>Research Intern</b> , Meta Research	June 2022 - December 2022
<b>Research Intern</b> , Google Montreal	June 2021 - December 2021
<b>Research Intern</b> , Google Montreal	June 2020 - December 2020
<b>Member of Technical Staff</b> , Adobe Systems, Noida, India	June 2017 - July 2018
<b>Research Intern</b> , Adobe Systems, Bangalore, India	May 2016 - July 2016
<b>Research Intern</b> , Summer Research Fellowship Program, IIT Kanpur	May 2015 - July 2015

## TEACHING EXPERIENCE

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<b>Graduate Courses</b>	Artificial Intelligence Planning (Spring 2020), Multilingual Natural Language Processing (Spring 2021)
<b>Undergraduate Courses</b>	Natural Language Processing (Fall 2018), Deep Learning (Spring 2019), Data Science (Fall 2020)

## ACADEMIC SERVICE

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<b>Area Chair</b>	LREC-COLING 2024
<b>Reviewer</b>	ARR 2021-23; ACL 2021-23; EMNLP 2020-23; NAACL 2022, EACL 2023
<b>Program Committee Organizer</b>	SPNLP 2020; TSAR 2022-23; W-NUT 2020-22; MT Summit 2023
<b>Mentor</b>	Formality Shared Task 2023; MASC-SLL 2022-23
	Technica 2022

## INVITED TALKS

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<b>IST &amp; Unbabel Seminar</b>	Generating and Evaluating Machine Translation in Context
<b>NLG seminar at UT-Austin</b>	Adapting Edit-based Non-Autoregressive Models for Controllable Text Simplification
<b>IIT Guwahati</b>	Complexity Controlled Machine Translation
<b>Reading Group at Masakhane</b>	Machine Translation Evaluation

## FELLOWSHIP AND AWARDS

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Ann G. Wylie Dissertation Fellowship 2023 (declined)  
Jacob K. Goldhaber Travel Grant & ICSS Award 2019

## PUBLICATIONS (BY YEAR)

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- [1] **Sweta Agrawal** and Marine Carpuat. *Do Text Simplification Systems Convey Correct Information? A Human Evaluation via Reading Comprehension*. Accepted at TACL.
- [2] **Sweta Agrawal** and Marine Carpuat. *Controlling Pre-trained Language Models for Grade-Specific Text Simplification*. EMNLP 2023.
- [3] Nikita Mehandru, **Sweta Agrawal**, Yimin Xiao, Ge Gao, Elaine C Khoong, Marine Carpuat and Niloufar Salehi. *Physician Detection of Clinical Harm in Machine Translation: Quality Estimation Aids in Reliance and Backtranslation Identifies Critical Errors*. EMNLP 2023. 🏆 Outstanding Paper Award
- [4] Tannon Kew, Alison Chi, Laura Vásquez-Rodríguez, **Sweta Agrawal**, Dennis Aumiller, Fernando Alva-Manchego and Matthew Shardlow. *BLESS: Benchmarking Large Language Models on Sentence Simplification*. EMNLP 2023.
- [5] Agarwal et al., *Findings of the IWSLT 2023 Evaluation Campaign*. IWSLT 2023.
- [6] Weijia Xu, **Sweta Agrawal**, Eleftheria Briakou, Marianna J. Martindale, and Marine Carpuat. *Understanding and Detecting Hallucinations in Neural Machine Translation via Model Introspection*. TACL 2023.
- [7] **Sweta Agrawal**, Chunting Zhou, Mike Lewis, Luke Zettlemoyer, and Marjan Ghazvininejad. *In-context Examples Selection for Machine Translation*. Findings of ACL 2023.
- [8] Elijah Rippeth\*, **Sweta Agrawal**\* and Marine Carpuat. *Controlling Translation Formality Using Pre-trained Multilingual Language Models*. IWSLT 2022.
- [9] **Sweta Agrawal**, Julia Kreutzer and Colin Cherry. *Exploring the Benefits and Limitations of Multilinguality for Non-autoregressive Machine Translation*. WMT 2022.
- [10] **Sweta Agrawal**, Nikita Mehandru, Niloufar Salehi, and Marine Carpuat. *Quality Estimation via Backtranslation at the WMT 2022 Quality Estimation Task*. WMT 2022.
- [11] **Sweta Agrawal** and Marine Carpuat. *An Imitation Learning Curriculum for Text Editing with Non-Autoregressive Models*. ACL 2022.
- [12] Nikita Mehandru, **Sweta Agrawal**, Niloufar Salehi and Marine Carpuat. *Evaluating the Quality of Machine Translation in Medical Settings*. 2nd HCI+NLP Workshop, NAACL 2022.
- [13] **Sweta Agrawal**, Weijia Xu and Marine Carpuat. *A Non-Autoregressive Edit-Based Approach to Controllable Text Simplification*. Findings of ACL 2021.
- [14] **Sweta Agrawal**, George Foster, Markus Freitag and Colin Cherry. *Assessing Reference-Free Peer Evaluation for Machine Translation*. NAACL 2021.

## PUBLICATIONS (CONT'D)

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- [15] Eleftheria Briakou, **Sweta Agrawal**, Joel Tetreault and Marine Carpuat. *Evaluating the Evaluation Metrics for Style Transfer: A Case Study in Multilingual Formality Transfer*. EMNLP 2021.
- [16] Eleftheria Briakou, **Sweta Agrawal**, Ke Zhang, Joel Tetreault and Marine Carpuat. *A Review of Human Evaluation for Style Transfer*. GEM 2021.
- [17] **Sweta Agrawal** and Marine Carpuat. *Generating Diverse Translations via Weighted Fine-tuning and Hypotheses Filtering for the Duolingo STAPLE Task*. WNGT 2020.
- [18] **Sweta Agrawal** and Marine Carpuat. *Controlling Text Complexity in Neural Machine Translation*. EMNLP-IJCNLP 2019.
- [19] **Sweta Agrawal** and Amit Awekar. *Deep learning for detecting cyberbullying across multiple social media platforms*. ECIR 2018.
- [20] Ankur Garg, Sunav Choudhary, Payal Bajaj, **Sweta Agrawal**, Abhishek Kedia, and Shubham Agarwal, *Smart Geo-Fencing Using Location Sensitive Product Affinity*, ACM SIGSPATIAL, 2017.  
\* equal contribution

## PATENTS

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- [1] Chetan Nanda, **Sweta Agrawal**, Ramesh P B, *Temporal Color Correction using Machine Learning*, USPTO.
- [2] Ankur Garg, **Sweta Agrawal**, Payal Bajaj, Abhishek Kedia, and Shubham Agarwal, *Smart Geo-Fencing Using Location Sensitive Product Affinity*, USPTO.